WEATHERMASTER®
48HJ004, 005, 006, 007, 008, 009, 012 & 014

GAS HEATING/
ELECTRIC COOLING UNITS

— PERFORMANCE DATA
— CERTIFIED DIMENSION PRINTS
— CERTIFIED ROOF CURB DIMENSION PRINTS

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Form 48HJ-16SB Replaces: 48HJ-15SB Printed in U.S.A. 11-05 Catalog No. 04-51480001-01

Date:	Supersedes:	**48HJ 004, 005, 006, 007, 008, 009, 012 & 014 GAS HEATING/ ELECTRIC COOLING UNITS**	48HJD/E/F/G/H/ K/L/M/N/S/R/T	Rev: -16SB
JOB NAME:		LOCATION:		
BUYER:		BUYER P.O. #	CARRIER #	
UNIT NUMBER:		MODEL NUMBER:		
PERFORMANCE DATA CERTIFIED BY:			DATE:	

DESCRIPTION

Units are one-piece, two-stage gas heating/single-stage electric cooling units, with a low profile, prewired, tested and charged at the factory. The units are easily field convertible for supply and return openings and are intended for installation on an accessory curb (ordered separately), or for slab mounting (for horizontal duct connections).

Units may be ordered with an array of factory-installed options as well as several choices of gas heat sizes.

STANDARD FEATURES

Standard one-year full product warranty.

Five-year protection plan for the motor-compressor.

SEER up to 13.0 EER up to 11.6.

Downflow to horizontal convertible for slab mounting.

Ten-year protection plan on heat exchanger.

Low outdoor temperature cooling operation to 25 F (–4 C) as standard.

Units are tested and certified by ARI and certified by UL and UL, Canada. Factory-run test printout included with each rooftop unit.

24-volt control circuit, with resettable circuit breaker.

Exclusive Cycle-LOC™ compressor anti-cycle protection.

Two-inch disposable-type return air filters in dedicated rack.

Independent circuit with internal line break and overload protection, self-lubricating with internal discharge muffler.

Refrigerant circuit contains a filter drier to trap dirt and moisture.

Scroll compression standard.

Adjustable motor pulley belt drive evaporator fan standard on all size units, with permanently lubricated high-static motors.

Noncorrosive composite condensate pan with self-draining sloping design and both bottom and side drain connections in accordance with ASHRAE standards.

Loss-of-charge, freeze protection, and high-pressure safety switches.

Standard thru-the-bottom power entry capability.

Indoor and outdoor coils constructed of lanced aluminum fins mechanically bonded to internally grooved seamless copper tubes.

Available corrosion resistant coils.

Full perimeter heavy gage base rail with built-in rigging adapters and fork truck slots.

Single-point gas and electrical connections.

Direct-drive propeller condenser fan motor totally enclosed with permanently lubricated bearings.

Prepainted cabinet with primer inner panels, certified at 500-hr salt spray test and noncorrosive screws.

Large, easily removable panels provide ready access to unit components for rapid removal or maintenance.

Filter access door for filter access and maintenance that requires no tools.

Induced draft combustion system with Hall effect sensor to detect proper operation of induced draft motor.

Heavy Alumagard™ coated heat exchangers, with aluminized steel burners and two-stage gas valves.

Fixed orifice metering device precisely controls flow to each circuit individually.

Heating controls with solid-state direct spark ignition system, and two-stage redundant gas valve. Fan switch, overtemperature switch and flame rollout switch also included.

Reliable accurate control circuit with color-coded wires and easy accessible terminal board.

Integrated gas control board with built-in diagnostics to determine error codes and control indoor fan ON/OFF delays.

Integrated gas control board provides anti-cycle protection for gas heat operation.

Dedicated "L, M, and N" 3 to 5 ton Low NO_x units meet California Air Quality NO_x requirement of 40 nanograms/joule or less.

Dedicated "G, H, and K" 3 to 5 ton, 3-phase Non-NO_x single-stage units.

"S, R and T" units have stainless steel heat exchanger.

Available Extended Warranties

— Labor warranty (requires authorized start-up)

— Up to 15-year additional heat exchanger warranty

PERFORMANCE DATA

COOLING

Net Total Cap. _____ Btuh

Net Sensible Cap. _____ Btuh

Compressor Power Input _____ kW

_____F Outdoor Air Temperature

Indoor Entering Air db _____F wb _____ F

Cfm _____ Ext. Static Pressure _____ in. wg

Fan Rpm_____ Bhp_____

SEER/EER _____

HEATING

Input

Stage 1_____ Total _____Btuh

Output:

Stage 1_____ Total _____Btuh

AFUE _____ %

Steady State_____ %

Operating Weight _____ lb (unit) _____lb (curb)

ELECTRICAL DATA

Power Supply to Unit _____ Volts_____ Phase_____ Hz

Minimum Circuit Amps _____ Maximum Overcurrent Protection (Fuse only) _____

CUT ALONG DOTTED LINE

CUT ALONG DOTTED LINE

OPTIONS AND ACCESSORIES

FACTORY-INSTALLED OPTIONS

- ☐ EconoMi$er IV with Controls (Vertical Only)
- ☐ EconoMi$er2 with 4-20 mA Actuator Only (PremierLink™ or 3rd Party EMS System Control)
- ☐ High-Static Indoor Fan Motor and Drive
- ☐ Copper/Copper Coils — Indoor, Outdoor, Both
- ☐ E-Coated Outdoor Coils/Aluminum or Copper Fins
- ☐ E-Coated Indoor Coils/Aluminum Fins/Copper Tubes
- ☐ Non-Fused Disconnect Switch (80 A Max)
- ☐ 115-Volt Powered Convenience Outlet (load side)
- ☐ 62AQ Energy $Recycler™ Unit (Entire unit becomes COBRA™ Energy Recovery Unit)
  Including:
  62AQ Energy$Recycler Supply Air Blower
  62AQ Energy$Recycler 460-V Transformer (48HJ004-007, if required)
- ☐ Hinged Access Panels for Indoor Fan, Compressor, Control Box, and Filter
- ☐ NOVAR Controls (3051)
- ☐ PremierLink Control
- ☐ Humidi-MiZer™ Dehumidification Device
- ☐ Stainless Steel Heat Exchanger Tubes

FIELD-INSTALLED ACCESSORIES

- ☐ PremierLink Retrofit Controller
- ☐ EconoMi$er IV with Controls (Vertical or Horizontal)
- ☐ EconoMi$er2 with 4-20 mA Actuator and No Microprocessor — Vertical or Horizontal
- ☐ Power Exhaust and Barometric Pressure Relief
- ☐ EconoMi$er2 Accessory Kit — for use with Hinged Panel – Vertical or Horizontal
- ☐ Power Exhaust — Vertical or Horizontal
- ☐ EconoMi$er2 575-V Transformer for 208/230-V Single-Phase Power Exhaust
- ☐ Manual Outdoor-Air Damper (25% Open)
- ☐ Manual Outdoor-Air Damper (50% Open)
- ☐ 25% Two-Position Damper
- ☐ 100% Two-Position Damper
- ☐ Return-Air Enthalpy Sensor
- ☐ Return-Air Temperature Sensor
- ☐ Outdoor-Air Enthalpy Sensor
- ☐ CO_2 Sensors (Space or Duct Mount)
- ☐ Aspirator Box (Duct Mount CO_2 Room Sensor)
- ☐ Roof Curb (14 or 24-in. Height)
- ☐ Roof Curb for COBRA units
- ☐ Thru-the-Bottom Electrical and Gas Connection Kit
- ☐ Thru-the-Curb Bottom Electrical and Thru-the-Curb Gas Connection Kit
- ☐ Time Guard II Compressor Anti-Cycle Control
- ☐ Outdoor Coil Hail Guard
- ☐ Outdoor Coil Protector Grille
- ☐ –20 F Motormaster® Low Ambient Control Kit
- ☐ Motormaster Head Pressure Control
- ☐ Programmable Setback Thermostat
- ☐ Electrical/Mechanical Thermostat and Subbase
- ☐ Thermidistat™ Device
- ☐ Humidistat
- ☐ Indoor Fan/Filter Status Indicator
- ☐ COBRA/62AQ Sleeper Rail (14 or 24-in. Height)
- ☐ COBRA Full Perimeter Curb (14 or 24-in. Height)
- ☐ 62AQ Energy$Recycler Unit
- ☐ 62AQ Energy$Recycler Mounting Kit
- ☐ 62AQ Energy$Recycler Supply Air Blower
- ☐ 62AQ Energy$Recycler 460-V Transformer
- ☐ 62AQ Energy$Recycler 575-V Transformer
- ☐ UV-C Lamps
- ☐ Flue Discharge Deflector
- ☐ Flue Shield
- ☐ LP kit

BLANKET QUOTE CONTROLS

- ☐ 115-V GFI Convenience Outlet (field powered)
- ☐ 115-V Field Powered GFI Convenience Outlet (line side)
- ☐ Fused Disconnect
- ☐ Lockout of High Fire Stage for Heating
- ☐ Louvered Hail Guard
- ☐ Low Ambient Controller (Motormaster® I)
- ☐ Smoke Detector — Return Air
- ☐ Smoke Detector — Return and Supply Air
- ☐ Smoke Detector — Supply Air
- ☐ Split Power (transfer switch NOT included)
- ☐ UV-C Lamps (installed and powered with door interlock switch and disconnect switch)

CERTIFIED DIMENSION PRINT

UNITED TECHNOLOGIES CARRIER
P O BOX 4808
SYRACUSE N. Y.
13221

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UNIT	STD. UNIT WEIGHT LBS.	STD. UNIT WEIGHT KG.	ECONOMI$ER IV WEIGHT LBS.	ECONOMI$ER IV WEIGHT KG.	VERT. ECON IV W/P.E. WEIGHT LBS.	VERT. ECON IV W/P.E. WEIGHT KG.	(A) CORNER WEIGHT LBS.	(A) CORNER WEIGHT KG.	(B) CORNER WEIGHT LBS.	(B) CORNER WEIGHT KG.	(C) CORNER WEIGHT LBS.	(C) CORNER WEIGHT KG.	(D) CORNER WEIGHT LBS.	(D) CORNER WEIGHT KG.	"J" FT.-IN.	"J" MM
48HJ*004	530	240	50	22.7	90	40.9	127	57.6	122	55.3	138	62.6	143	64.9	2'-9 5/16"	846.5
48HJ*005	540	245	↓	↓	↓	↓	129	58.5	124	56.2	141	64.0	146	66.2	↓	↓
48HJ*006	560	254	↓	↓	↓	↓	134	60.8	129	58.5	146	66.2	151	68.5	↓	↓
48TM*007	615	279	↓	↓	↓	↓	147	66.7	142	64.4	160	72.6	166	75.3	↓	↓
48HJ*007	635	288	↓	↓	↓	↓	152	68.9	147	66.7	165	74.8	171	77.5	3'-5 5/16"	1050

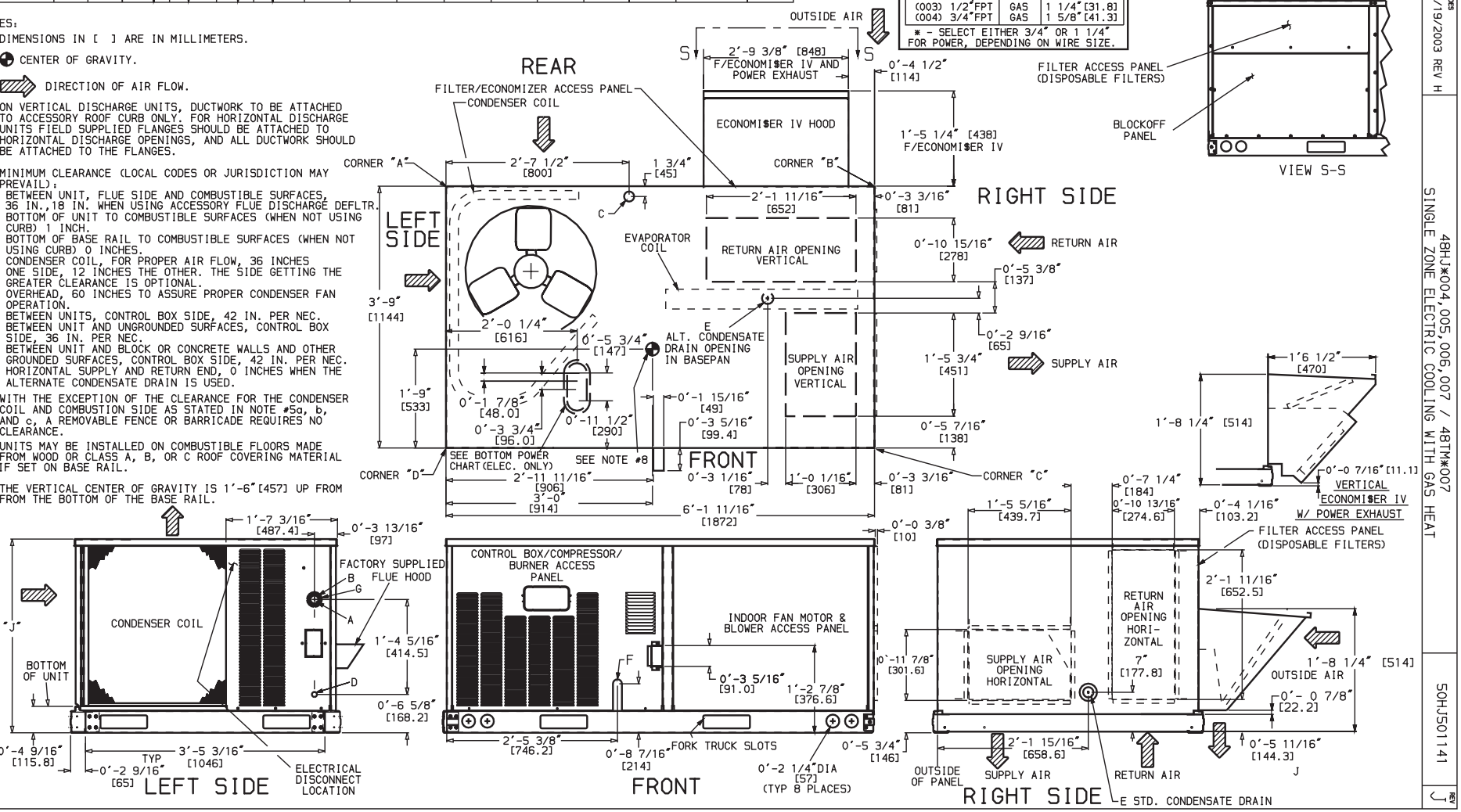
BOTTOM POWER CHART:
THESE HOLES REQ'D FOR USE WITH ACCESSORY PACKAGES - CRBTMPWR001A01, 2A01, 3A01, OR 4A01

THREADED CONDUIT SIZE	WIRE USE	REQ'D HOLE SIZES (MAX.)
1/2"	ACC.	7/8" [22.2]
1/2"	24V	7/8" [22.2]
3/4" (001,003)	POWER*	1 1/8" [28.4]
1 1/4" (002,004)	POWER*	1 3/4" [44.4]
(003) 1/2" FPT	GAS	1 1/4" [31.8]
(004) 3/4" FPT	GAS	1 5/8" [41.3]

* - SELECT EITHER 3/4" OR 1 1/4" FOR POWER, DEPENDING ON WIRE SIZE.

	CONNECTION SIZES
A	1 3/8" DIA. [35] FIELD POWER SUPPLY HOLE
B	2" DIA. [51] POWER SUPPLY KNOCK-OUT
C	1 3/4" DIA. [44] CHARGING PORT HOLE
D	7/8" DIA. [22] FIELD CONTROL WIRING HOLE
E	3/4"-14 NPT CONDENSATE DRAIN
F	1/2"-14 NPT GAS CONNECTION
G	2 1/2" DIA. [64] POWER SUPPLY KNOCK-OUT

NOTES:
1. DIMENSIONS IN [ ] ARE IN MILLIMETERS.
2. ⊕ CENTER OF GRAVITY.
3. ⇒ DIRECTION OF AIR FLOW.
4. ON VERTICAL DISCHARGE UNITS, DUCTWORK TO BE ATTACHED TO ACCESSORY ROOF CURB ONLY. FOR HORIZONTAL DISCHARGE UNITS FIELD SUPPLIED FLANGES SHOULD BE ATTACHED TO HORIZONTAL DISCHARGE OPENINGS, AND ALL DUCTWORK SHOULD BE ATTACHED TO THE FLANGES.
5. MINIMUM CLEARANCE (LOCAL CODES OR JURISDICTION MAY PREVAIL):
   a. BETWEEN UNIT, FLUE SIDE AND COMBUSTIBLE SURFACES, 36 IN.,18 IN. WHEN USING ACCESSORY FLUE DISCHARGE DEFLTR.
   b. BOTTOM OF UNIT TO COMBUSTIBLE SURFACES (WHEN NOT USING CURB) 1 INCH. BOTTOM OF BASE RAIL TO COMBUSTIBLE SURFACES (WHEN NOT USING CURB) 0 INCHES.
   c. CONDENSER COIL, FOR PROPER AIR FLOW, 36 INCHES ONE SIDE, 12 INCHES THE OTHER. THE SIDE GETTING THE GREATER CLEARANCE IS OPTIONAL.
   d. OVERHEAD, 60 INCHES TO ASSURE PROPER CONDENSER FAN OPERATION.
   e. BETWEEN UNITS, CONTROL BOX SIDE, 42 IN. PER NEC.
   f. BETWEEN UNIT AND UNGROUNDED SURFACES, CONTROL BOX SIDE, 36 IN. PER NEC.
   g. BETWEEN UNIT AND BLOCK OR CONCRETE WALLS AND OTHER GROUNDED SURFACES, CONTROL BOX SIDE, 42 IN. PER NEC.
   h. HORIZONTAL SUPPLY AND RETURN END, 0 INCHES WHEN THE ALTERNATE CONDENSATE DRAIN IS USED.
6. WITH THE EXCEPTION OF THE CLEARANCE FOR THE CONDENSER COIL AND COMBUSTION SIDE AS STATED IN NOTE #5a, b, AND c, A REMOVABLE FENCE OR BARRICADE REQUIRES NO CLEARANCE.
7. UNITS MAY BE INSTALLED ON COMBUSTIBLE FLOORS MADE FROM WOOD OR CLASS A, B, OR C ROOF COVERING MATERIAL IF SET ON BASE RAIL.
8. THE VERTICAL CENTER OF GRAVITY IS 1'-6" [457] UP FROM FROM THE BOTTOM OF THE BASE RAIL.



DATE 11/14/2005
SUPERSEDES 06/19/2003 REV H

48HJ*004,005,006,007 / 48TM*007
SINGLE ZONE ELECTRIC COOLING WITH GAS HEAT

50HJ501141
REV J

CUT ALONG DOTTED LINE CUT ALONG DOTTED LINE

CERTIFIED DIMENSION PRINT

UNITED TECHNOLOGIES CARRIER
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UNIT	STD. UNIT WEIGHT		ECONOMI$ER IV WEIGHT		VERT. ECON IV W/ P.E. WEIGHT		CORNER WEIGHT (A)		CORNER WEIGHT (B)		CORNER WEIGHT (C)		CORNER WEIGHT (D)		"H"		"J"		"K"		"L"	
	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	FT.-IN.	MM	FT.-IN.	MM	FT.-IN.	MM	FT.-IN.	MM
48HJ*/48TM*008	870	395	75	34.1	145	65.9	189	86	161	73	239	109	280	127	2'-0 7/8"	632	3'-5 5/16"	1050	2'-9 11/16"	856	2'-2 7/16"	672
48TM*009	880	399					191	87	163	74	242	110	284	129	1' -2 7/8"	378	3'-5 5/16"	1050	2'-9 11/16"	856	2'-2 7/16"	672
48HJ*009	1015	460					223	101	188	85	279	126	327	148	1' -2 7/8"	378	4'-1 5/16"	1253	3'-0 3/8"	924	2'-10 7/16"	875
48HJ*012/48TM*012	1035	469					225	102	192	87	285	129	333	151	1' -2 7/8"	378	4'-1 5/16"	1253	3'-0 3/8"	924	2'-10 7/16"	875
48HJ*/48TM*014	1050	476					228	103	195	88	289	131	338	153	1'-2 7/8"	378	4'-1 5/16"	1253	3'-0 3/8"	924	2'-10 7/16"	875

NOTES:

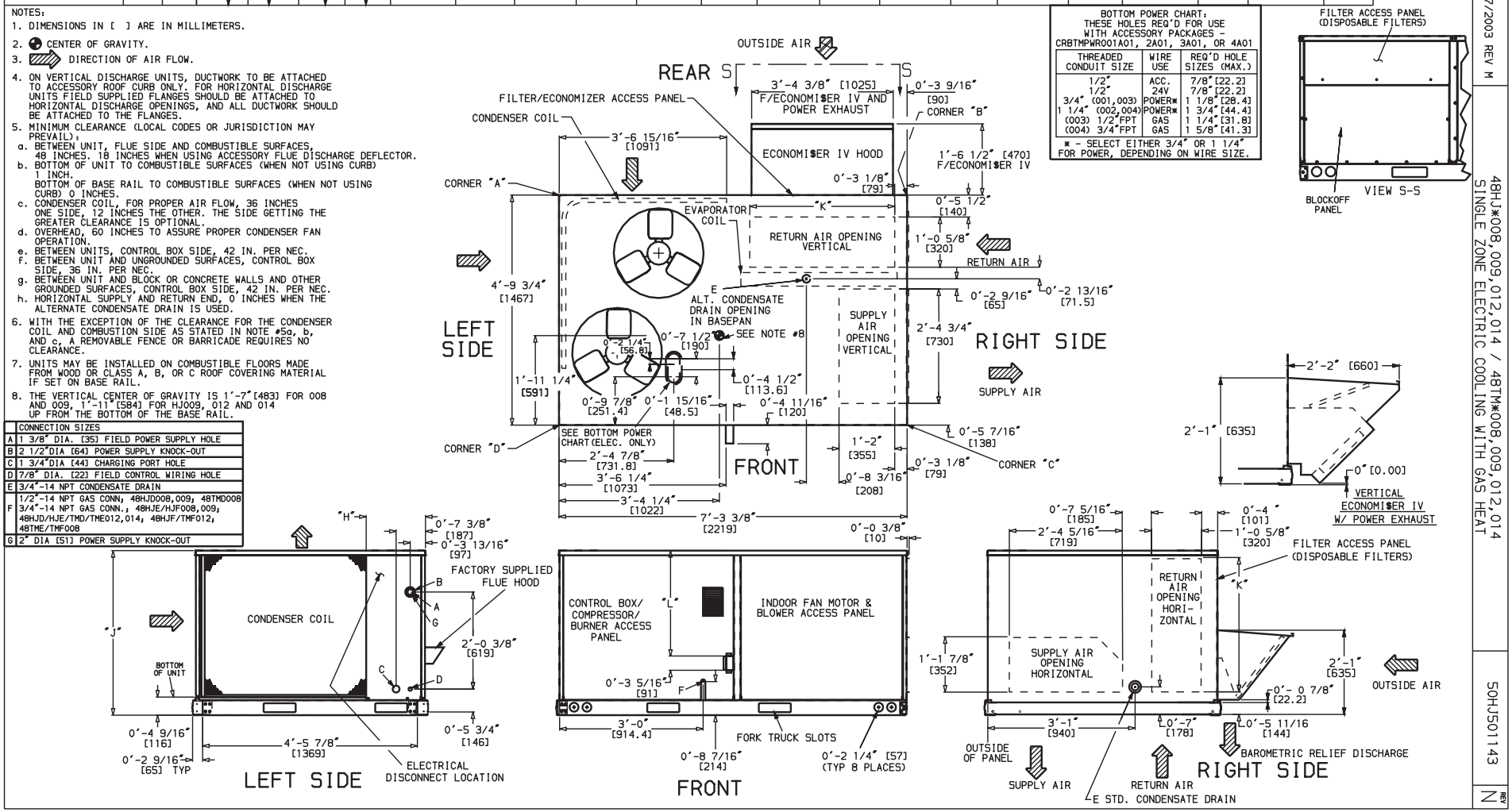
1. DIMENSIONS IN [ ] ARE IN MILLIMETERS.
2. ⊕ CENTER OF GRAVITY.
3. DIRECTION OF AIR FLOW.
4. ON VERTICAL DISCHARGE UNITS, DUCTWORK TO BE ATTACHED TO ACCESSORY ROOF CURB ONLY. FOR HORIZONTAL DISCHARGE UNITS FIELD SUPPLIED FLANGES SHOULD BE ATTACHED TO HORIZONTAL DISCHARGE OPENINGS, AND ALL DUCTWORK SHOULD BE ATTACHED TO THE FLANGES.
5. MINIMUM CLEARANCE (LOCAL CODES OR JURISDICTION MAY PREVAIL):
   a. BETWEEN UNIT, FLUE SIDE AND COMBUSTIBLE SURFACES, 48 INCHES. 18 INCHES WHEN USING ACCESSORY FLUE DISCHARGE DEFLECTOR.
   b. BOTTOM OF UNIT TO COMBUSTIBLE SURFACES (WHEN NOT USING CURB) 1 INCH. BOTTOM OF BASE RAIL TO COMBUSTIBLE SURFACES (WHEN NOT USING CURB) 0 INCHES.
   c. CONDENSER COIL, FOR PROPER AIR FLOW, 36 INCHES ONE SIDE, 12 INCHES THE OTHER. THE SIDE GETTING THE GREATER CLEARANCE IS OPTIONAL.
   d. OVERHEAD, 60 INCHES TO ASSURE PROPER CONDENSER FAN OPERATION.
   e. BETWEEN UNITS, CONTROL BOX SIDE, 42 IN. PER NEC.
   f. BETWEEN UNIT AND UNGROUNDED SURFACES, CONTROL BOX SIDE, 36 IN. PER NEC.
   g. BETWEEN UNIT AND BLOCK OR CONCRETE WALLS AND OTHER GROUNDED SURFACES, CONTROL BOX SIDE, 42 IN. PER NEC.
   h. HORIZONTAL SUPPLY AND RETURN END, 0 INCHES WHEN THE ALTERNATE CONDENSATE DRAIN IS USED.
6. WITH THE EXCEPTION OF THE CLEARANCE FOR THE CONDENSER COIL AND COMBUSTION SIDE AS STATED IN NOTE #5a, b, AND c, A REMOVABLE FENCE OR BARRICADE REQUIRES NO CLEARANCE.
7. UNITS MAY BE INSTALLED ON COMBUSTIBLE FLOORS MADE FROM WOOD OR CLASS A, B, OR C ROOF COVERING MATERIAL IF SET ON BASE RAIL.
8. THE VERTICAL CENTER OF GRAVITY IS 1'-7" [483] FOR 008 AND 009, 1'-11" [584] FOR HJ009, 012 AND 014 UP FROM THE BOTTOM OF THE BASE RAIL.

	CONNECTION SIZES
A	1 3/8" DIA. [35] FIELD POWER SUPPLY HOLE
B	2 1/2"DIA [64] POWER SUPPLY KNOCK-OUT
C	1 3/4"DIA [44] CHARGING PORT HOLE
D	7/8" DIA. [22] FIELD CONTROL WIRING HOLE
E	3/4"-14 NPT CONDENSATE DRAIN
F	1/2"-14 NPT GAS CONN, 48HJD008,009, 48TMD008 3/4"-14 NPT GAS CONN., 48HJE/HJF008,009, 48HJD/HJE/TMD/TME012,014, 48HJF/TMF012, 48TME/TMF008
G	2" DIA [51] POWER SUPPLY KNOCK-OUT

BOTTOM POWER CHART:
THESE HOLES REQ'D FOR USE WITH ACCESSORY PACKAGES - CRBTMPWR001A01, 2A01, 3A01, OR 4A01

THREADED CONDUIT SIZE	WIRE USE	REQ'D HOLE SIZES (MAX.)
1/2"	ACC.	7/8" [22.2]
1/2"	24V	7/8" [22.2]
3/4" (001,003)	POWER*	1 1/8" [28.4]
1 1/4" (002,004)	POWER*	1 3/4" [44.4]
(003) 1/2"FPT	GAS	1 1/4" [31.8]
(004) 3/4"FPT	GAS	1 5/8" [41.3]

* - SELECT EITHER 3/4" OR 1 1/4" FOR POWER, DEPENDING ON WIRE SIZE.



DATE 11/14/2005
SUPERSEDES 10/07/2003 REV M

48HJ*008,009,012,014 / 48TM*008,009,012,014
SINGLE ZONE ELECTRIC COOLING WITH GAS HEAT

50HJ501143

REV N

CERTIFIED ROOF CURB DIMENSION PRINT

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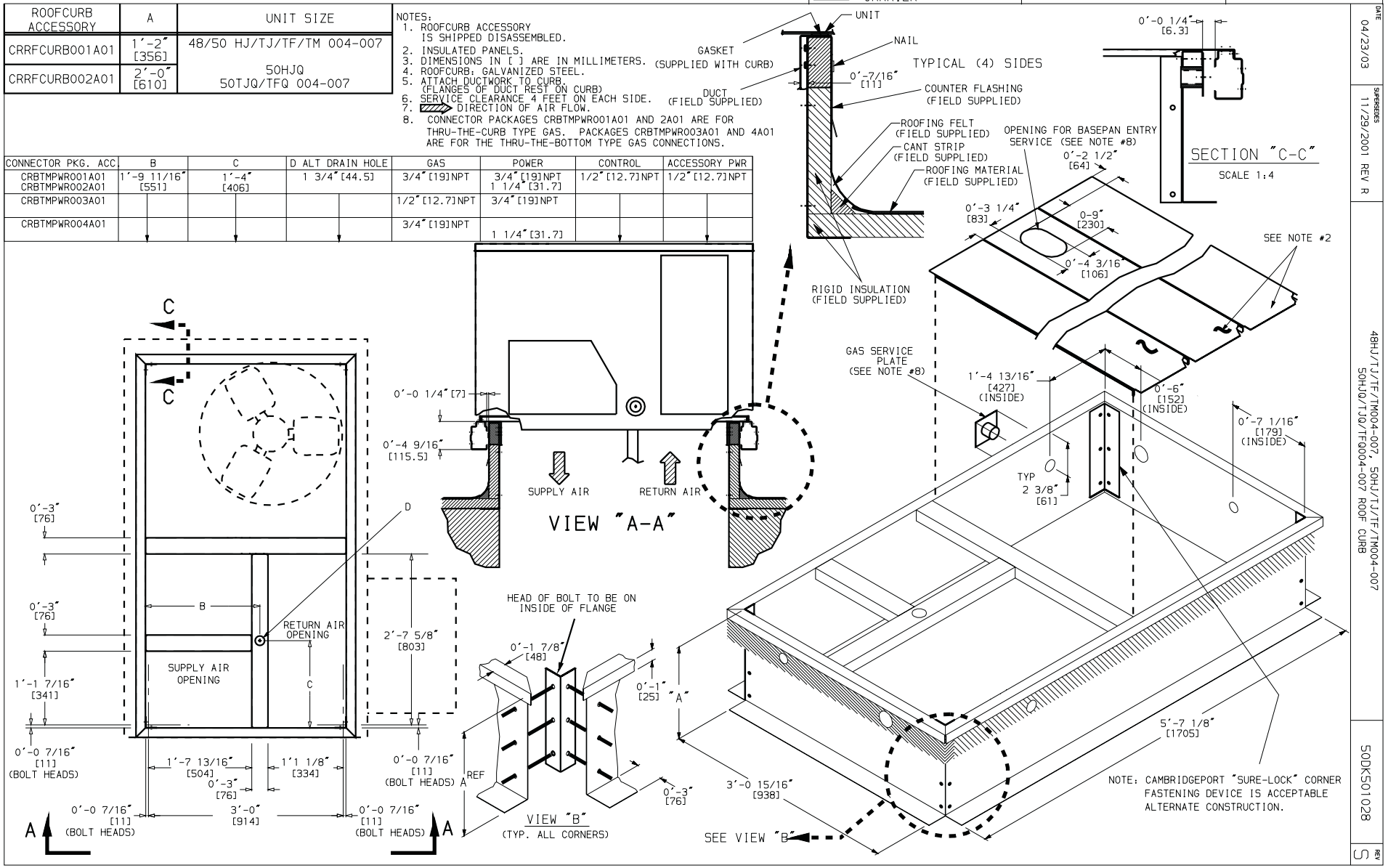
ROOFCURB ACCESSORY	A	UNIT SIZE
CRRFCURB001A01	1'-2" [356]	48/50 HJ/TJ/TF/TM 004-007
CRRFCURB002A01	2'-0" [610]	50HJQ 50TJQ/TFQ 004-007

NOTES:
1. ROOFCURB ACCESSORY IS SHIPPED DISASSEMBLED.
2. INSULATED PANELS.
3. DIMENSIONS IN [ ] ARE IN MILLIMETERS.
4. ROOFCURB: GALVANIZED STEEL.
5. ATTACH DUCTWORK TO CURB. (FLANGES OF DUCT REST ON CURB)
6. SERVICE CLEARANCE 4 FEET ON EACH SIDE.
7. ▨ DIRECTION OF AIR FLOW.
8. CONNECTOR PACKAGES CRBTMPWR001A01 AND 2A01 ARE FOR THRU-THE-CURB TYPE GAS. PACKAGES CRBTMPWR003A01 AND 4A01 ARE FOR THE THRU-THE-BOTTOM TYPE GAS CONNECTIONS.

CONNECTOR PKG. ACC.	B	C	D ALT DRAIN HOLE	GAS	POWER	CONTROL	ACCESSORY PWR
CRBTMPWR001A01 CRBTMPWR002A01	1'-9 11/16" [551]	1'-4" [406]	1 3/4" [44.5]	3/4" [19] NPT	3/4" [19] NPT 1 1/4" [31.7]	1/2" [12.7] NPT	1/2" [12.7] NPT
CRBTMPWR003A01				1/2" [12.7] NPT	3/4" [19] NPT		
CRBTMPWR004A01				3/4" [19] NPT	1 1/4" [31.7]		



DATE 04/23/03
SUPERSEDES 11/29/2001 REV R
48HJ/TJ/TF/TM004-007, 50HJ/TJ/TF/TM004-007
50HJQ/TJQ/TFQ004-007 ROOF CURB
50DK501028
REV S

CUT ALONG DOTTED LINE CUT ALONG DOTTED LINE

CERTIFIED ROOF CURB DIMENSION PRINT

UNITED TECHNOLOGIES CARRIER — P O BOX 4808 SYRACUSE N. Y. 13221

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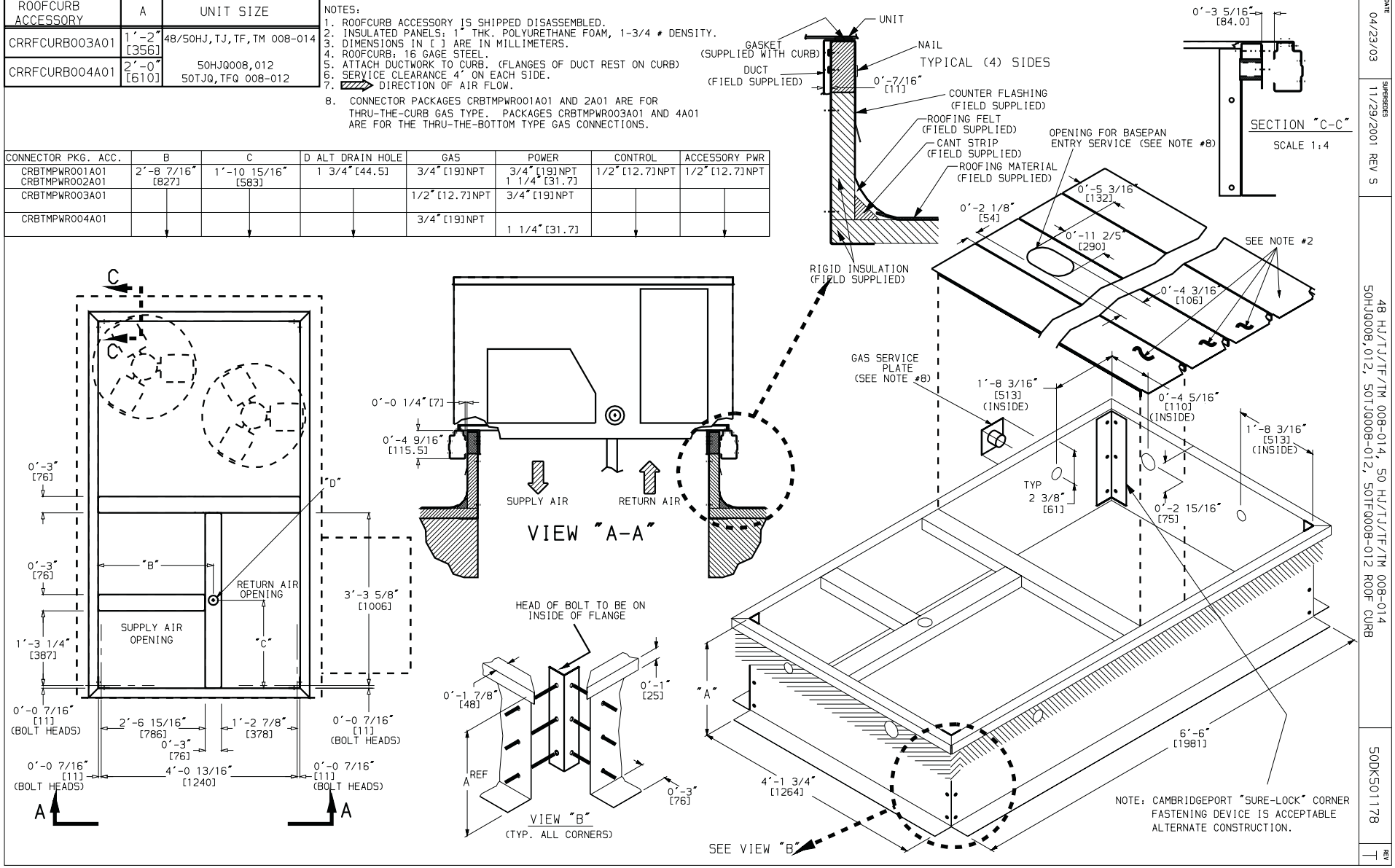
ROOFCURB ACCESSORY	A	UNIT SIZE
CRRFCURB003A01	1'-2" [356]	48/50HJ,TJ,TF,TM 008-014
CRRFCURB004A01	2'-0" [610]	50HJQ008,012 50TJQ,TFQ 008-012

NOTES:
1. ROOFCURB ACCESSORY IS SHIPPED DISASSEMBLED.
2. INSULATED PANELS: 1" THK. POLYURETHANE FOAM, 1-3/4 # DENSITY.
3. DIMENSIONS IN [ ] ARE IN MILLIMETERS.
4. ROOFCURB: 16 GAGE STEEL.
5. ATTACH DUCTWORK TO CURB. (FLANGES OF DUCT REST ON CURB)
6. SERVICE CLEARANCE 4' ON EACH SIDE.
7. ⇨ DIRECTION OF AIR FLOW.
8. CONNECTOR PACKAGES CRBTMPWR001A01 AND 2A01 ARE FOR THRU-THE-CURB GAS TYPE. PACKAGES CRBTMPWR003A01 AND 4A01 ARE FOR THE THRU-THE-BOTTOM TYPE GAS CONNECTIONS.

CONNECTOR PKG. ACC.	B	C	D ALT DRAIN HOLE	GAS	POWER	CONTROL	ACCESSORY PWR
CRBTMPWR001A01 CRBTMPWR002A01	2'-8 7/16" [827]	1'-10 15/16" [583]	1 3/4" [44.5]	3/4" [19] NPT	3/4" [19] NPT 1 1/4" [31.7]	1/2" [12.7] NPT	1/2" [12.7] NPT
CRBTMPWR003A01	↓	↓	↓	1/2" [12.7] NPT	3/4" [19] NPT	↓	↓
CRBTMPWR004A01	↓	↓	↓	3/4" [19] NPT	1 1/4" [31.7]	↓	↓



DATE 04/23/03
SUPERSEDES 11/29/2001 REV S
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